Inqaba Biotechnical Industries (Pty) Ltd
Animal Genetics Division

Co. Reg. No: 2001/011245/07
VAT No: 4150197251

Progressive Retinal Atrophy (GR_PR1)

Client Name:	Lauriaan Morton (LAU002)	Report No:	ZO2023/5164/20230123/#39600
Client Address:	Lauriaan Morton (LAU002) 23 Egret Street Welkom, Free State 9459 South Africa		
Phone:	0768783024		
Email:	lauriaan@vodamail.co.za		
Profile:	DG2023/42806	Species:	Canis lupus familiaris / Canine / Dog
Name:	Chester	Microchip #:	933071000210271
Breed:	Golden Retriever	Registration #:	ZA007023B22

Test:	[GR_PR1] Progressive Retinal Atrophy (GR_PR1)		
Results:	c.2601_2602insC	-/-	CLEAR

Sample Type: Whole Blood (EDTA) Extraction Method: DNA Extraction: D4069 Test Type: Genetic Health

[GR_PR1] Progressive Retinal Atrophy (GR_PR1)

Progressive Retinal Atrophy (PRA) is a collective of genetic eye disorders that share similar symptoms. There are numerous mutations that cause PRA in various canine breeds.

PRA_GR1 is a late onset PRA discovered in Golden Retrievers responsible for 60% of PRA cases in Golden Retrievers. A single cytosine insertion at c.2601 in the SLC4A3 gene causes a shift in the reading frame and subsequent premature termination.

PRA_GR1 is an autosomal recessive photoreceptor degenerative disease, where two copies of the mutation are required for an individual to be affected.

References: Downs et al 2011. A Frameshift Mutation in Golden Retriever Dogs with Progressive Retinal Atrophy Endorses SLC4A3 as a Candidate gene for Human Retinal Degenerations. PLoS One 6(6), e21452.

Disclaimer:
Whatever is contained in this report is subject to the following:

This report does not disregard the existence of any rare or unknown variant within this gene or other gene(s) that may results in the same or similar trait. Multiple mutations and/or gene(s) may contribute to the overall trait observed.

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It is the responsibility of the client that all biological samples are available at submission or previously submitted and corresponds with all requested samples listed on the sample submission form. Inqaba Biotechnical Industries Pty Ltd and the divisions thereof does not accept responsibility for the effect of any absent samples on the analysis results.

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The DNA profile is based on a preliminary marker panel that is subject to modification pending additional genetic information.

It is the sender's responsibility to obtain permits when sending samples where required.

Inqaba Biotechnical Industries Pty Ltd and the divisions thereof reserve the right to decline testing of samples.

No guarantees are made with regards to turn-around processing time and results, and no liability will be accepted for any delays.